

Peltor DECT-Com II



Programming Manual

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Peltor DECT-Com II – Programming Manual

Peltor™ DECT-Com II™ is a short range, full duplex, wireless communication system using DECT-technology. It gives up to nine users the possibility to simultaneously speak in full duplex conference and, in addition to that, a large number of participants as listeners, with quick break-in possibility.

The DECT-Com II system is available in two frequency versions; 1.8 GHz for use in most all countries^{*)} and a special 1.9 GHz version for North America.

By using a cable, an external communication radio, telephone or other audio source can also be connected to the DECT-Com II system.

For details about the use of the DECT-Com II system, please study the user's instructions before programming the equipment!

The user's manual is available on the 3M Peltor Communications web page
<http://peltorcomms.3m.com/>

^{*)} NOTICE!

The programming dealer should inform the user of the responsibility to obtain any necessary licences for using the communication radio in the DECT-Com II and for any possibly connected radio equipment!

1. The DECT-Com II Programming Kit (DC2093)

Hardware:

- Peltor DECT-Com II charger/programmer (DC2065).
- Programming cable (DC2091).

Software:

- Drivers for USB interface (for Windows XP and Windows Vista).
- Dealer software (Install shield).
- Programming guide.

The software can be obtained from the 3M Peltor Communications web page.
Please see below!

2. Download the Peltor Dealer Software

- Latest software updates will be found on the 3M Peltor Communications web page <http://peltorcomms.3m.com/dealer/>
For access to Peltor Communications Extranet you need your password.
- Save the setup file to your computer.
“Peltor_DECTCom_II_#.###_(with_flash_loader)_setup.exe”
- When the installation is completed a shortcut to “**Peltor DECT-Com II (with flash loader)**” will appear under “**Peltor DECT-Com**” under the Windows START button.

3. Install and connect the programmer to the computer.



Programming holder DC2065

To install the programmer, please follow the procedure below.
(Valid for Windows)

- Install the software by running the setup file
Peltor_DECTCom_II_#.#.#.#_(with_flash_loader)_setup.exe (#.#.#.# = version number)
- Approve the licence agreement.
- Accept settings and the SW will be installed.
- Download and install the USB drivers from the advised link presented during setup of the software.
- Attach the USB cable to the programming holder DC2065.
- Attach the USB cable to a free USB connector on your computer.
- Let Windows find the correct driver for the programmer.
- When a message telling you that the programmer is installed and ready for use, please proceed to next step.

4. Start a main unit and the program for to find the programming menu

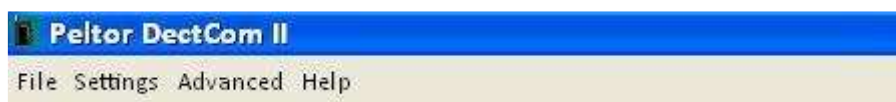
- Put a DECT-Com II main unit in the charger/programming holder.
- Start the main unit by pressing the Mode-button [M].
- The LED on the main unit is flashing green.
- Start the program from the shortcut to “Peltor DECT-Com II (with flash loader)” or from the computer's start menu.
- A connection screen is displayed.



- Press “**Test Connection**” to recognise a main unit in the holder.
NOTICE! You need to have a **started** main unit in the programming holder.
- When an information screen is showing the message “**connected**”, click OK.



- Click “**proceed**” button in the connection screen and the software is ready for use.



File	Open full file...	Open a settings file.
	Save full file as...	Save a settings file from a main unit.
	Open patch file...	Open a settings file with fewer parameters from a previous main unit.
	Save patch file as...	Save a settings file with fewer parameters from a previous main unit.
	Exit (Close application)	Leave the program.
Settings	Connection settings	Opens the connection window, also showed at start up.
	Work online	Enables you to change sound levels directly and you can easily hear the result of your changes.
Advanced	Load firmware	Opens the load firmware window.
Help	About.	Shows which version and when it is released.

5. Connect a DECT-Com II main unit to the computer



- Place a DECT-Com II main unit in the Programming holder and start the unit by pressing the mode-button [M] and the LED on the main unit is lit.
- Start the program “**Peltor DECT-Com II (with flash loader)**”
Follow the steps in chapter 4.
- Press “**Read all**” button.
- The status of the connection, SW version and S/N of the main unit is shown at the bottom of the window.

COM8	Offline	SW: 14161600 01Ds	001C8DFE59
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6. Main unit settings

When a DECT-Com II main unit is connected, a memory reading should be done.



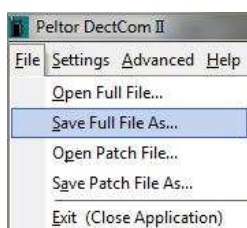
- Click on **“Read all”** to read all settings from the main unit.

“Name” shows the specific name given to a main unit.

“Now editing” shows the type of main unit mounted in the programming holder.

“Running as” shows the actual state of the main unit.
- Click on **“Write all”** to write all settings to the main unit.
Notice: A restart of the unit is recommended after writing information into it.
- Mark **“Force restart after write”** to activate an automatic restart after writing.
- Click on **“Reset all settings – keep subscriptions”** to perform a factory reset with the old subscriptions still left in the unit.
- Click on **“Reset all settings – Remove subscriptions”** to remove old subscriptions and reset to factory settings.
- Mark **“Filter ON after reset”** to activate the subscription filter after a factory reset.

Data from any reading can be stored in a file



- Use **“File”** and **“Save full file as...”** or **“File”** and **“Save patch file as...”** to save the data.
- Name and save the file.

7. Load new firmware into the main unit

- Go to **Advanced / Load Firmware**.



- Click **“Select”** to choose the firmware file you want to program into the main unit (*.bsx).
- Click on **“Start loader”** button.
- Turn off the unit by pressing the mode button [M] until the LED is turned off and then click **“OK”**.



- Turn on the unit and keep the [M] button pressed. Click **“OK”** while still pressing the [M] button.



- Release [M] button when the progress bar has started to run.



- A message “**Load of Firmware succeeded!**” will appear if the programming was finished without any failure.



- After a successful Firmware load a “**Reset to factory settings**” is needed.

If you have an already configured system:

If you have more DECT-Com II systems running close to each other, the option “**Filter ON after reset**” is recommended to avoid mixing the systems.

- Mark “**Filter ON after reset**” to activate the subscription filter after a factory reset.
- Click on “**Reset all settings – keep subscriptions**” to perform a factory reset with the old subscriptions still left in the unit.

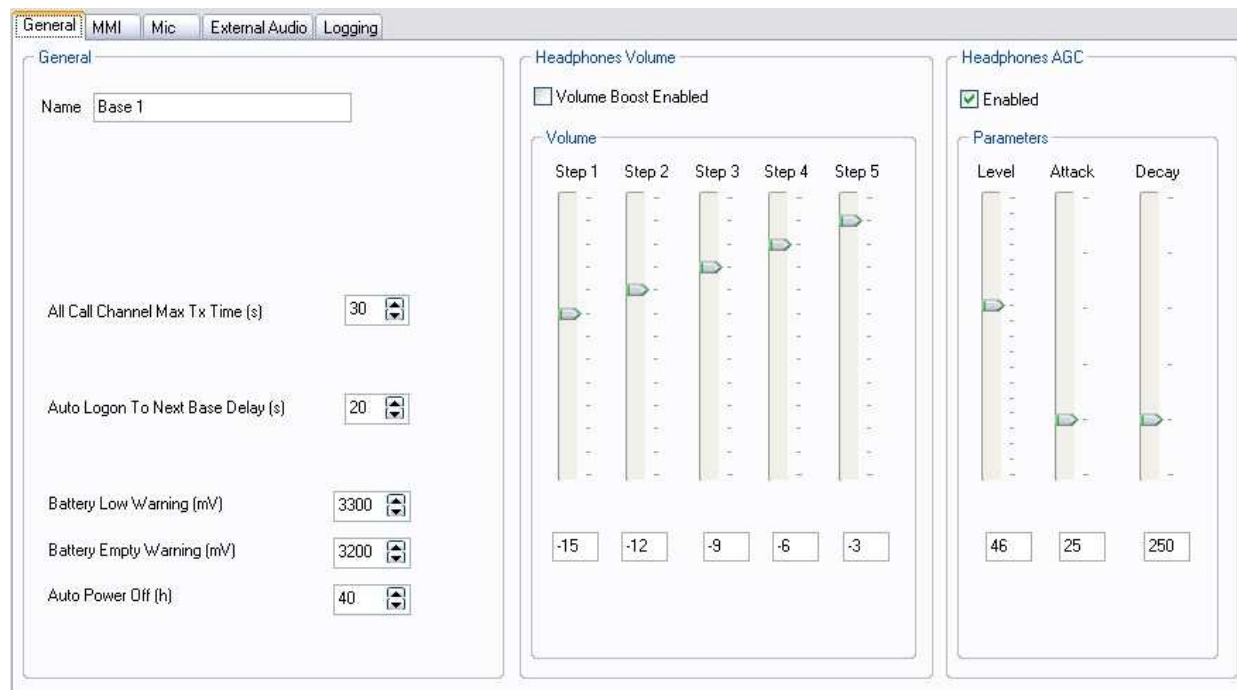
If you have a new system, which never has been configured, or if you want to reconfigure the system:

If you have more DECT-Com II systems running close to each other, the option “**Filter ON after reset**” is recommended to avoid mixing the systems.

- Mark “**Filter ON after reset**” to activate the subscription filter after a factory reset.
- Click on “**Reset all settings – Remove subscriptions**” to remove old subscriptions and reset to factory settings.

8. General settings

There are five tabs for different settings. All are described in this and the following four chapters.

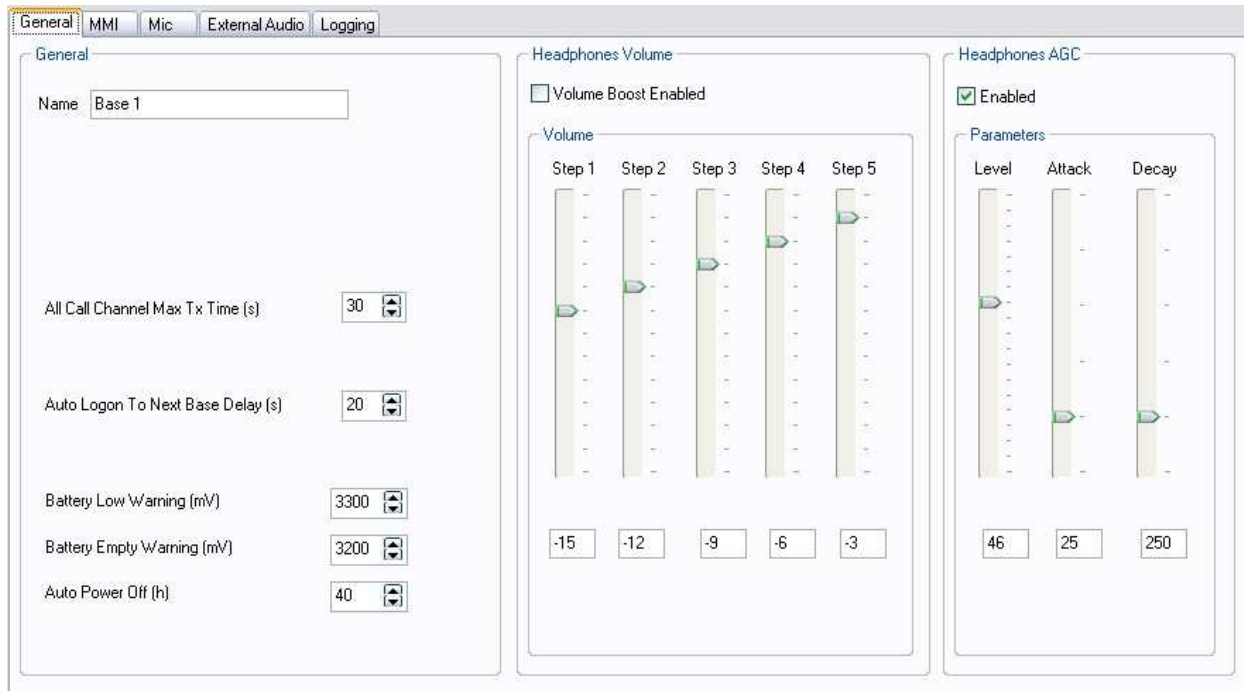


General

When the cursor is placed over the settings squares, the default values and other settings information is shown on the bottom of the page.

- **Name** A specific name of the main unit can be entered here.
- **All-call channel max Tx time** The maximum time period of an “all-call”. (Another period can be added with another press on the buttons.)
- **Auto Logon to next base delay** The time the unit will wait before it starts to log on to a new base, when out of range.
- **Battery low warning** The voltage level for battery low warning.
- **Battery empty warning** The voltage level for battery empty warning.
- **Auto power off** The number of hours before the unit will shut off, if no button is pressed.

General settings (continued)



General | MMI | Mic | External Audio | Logging

General

Name: Base 1

All Call Channel Max Tx Time (s): 30

Auto Logon To Next Base Delay (s): 20

Battery Low Warning (mV): 3300

Battery Empty Warning (mV): 3200

Auto Power Off (h): 40

Headphones Volume

☐ Volume Boost Enabled

Volume

Step 1	Step 2	Step 3	Step 4	Step 5
-15	-12	-9	-6	-3

Headphones AGC

☒ Enabled

Parameters

Level	Attack	Decay
46	25	250

Headphones Volume

- **Volume boost enabled**
- **Volume**

+6 dB added in all speaker volume steps (for instance when ear plugs are used inside an attenuating headset with DECT-Com II).

The levels of the different volume steps.

Headphones AGC

- **Enabled**
- **Parameters**

Automatic Gain Control for the headphones.

Values for AGC level, AGC attack time and AGC decay time.

9. Man Machine Interface

The screenshot shows the PELTOR Man Machine Interface software with the following settings:

- General Tab:**
 - ☒ LED Indication Enabled
 - ☒ Enable Voices
 - ☐ Lock Buttons
 - ☐ Auto Talk
- Timing Tab:**
 - Double Click Delay (ms): 500
 - Long Key Time (ms): 1500
- Routing Settings Tab:**
 - Portable (Also Base running as Portable):**
 - ☒ Group 1
 - ☒ Group 2
 - ☐ Momentary PTT2
 - ☐ + Group 1
 - ☐ Base RA2 PTT
 - ☒ Group 3
 - ☐ Momentary PTT3
 - ☐ + Group 1
 - ☐ Base RA3 PTT
 - ☐ Local RA3 PTT
 - Base:**
 - ☐ Group Locked
 - ☐ No Sidetone/GM
 - ☒ Group 1
 - ☒ Group 2
 - ☒ Group 3
 - ☐ RA2
 - ☐ RA3

General

- **LED indication enabled** Light Emitting Diode on or off.
- **Enable Voices** The guide voice on or off.
- **Lock Buttons** Locks all settings, except for the **ON/OFF** function
- **Auto Talk** “Talk mode” is automatically entered when starting the unit.
Notice: Only active on Group 1 with maximum 9 units!

Timing

- **Double click delay** The maximum time between two keystrokes for a “double click”.
- **Long key time** The minimum time to press a button for a “long click”.

Continued on next page...

Man Machine Interface (... continued)

The screenshot shows the PELTOR Man Machine Interface software. The 'Routing Settings' tab is active, showing three main sections: General, Portable (Also Base running as Portable), and Base. The General section includes checkboxes for 'LED Indication Enabled', 'Enable Voices', 'Lock Buttons', and 'Auto Talk', as well as 'Timing' settings for 'Double Click Delay (ms)' (500) and 'Long Key Time (ms)' (1500). The Portable section includes checkboxes for 'Group 1', 'Group 2', 'Momentary PTT2', '+ Group 1', and 'Base RA2 PTT'. The Base section includes checkboxes for 'Group Locked', 'No Sidetone/GM', 'Group 1', 'Group 2', 'Group 3', 'RA2', and 'RA3'.

Routing settings

Portable unit (also a Base unit running as Portable unit)

- **Group 1** Group 1 activated (controlled by PTT1).
The first group (Group 1) is always activated.
(Maximum 9 simultaneous speakers, plus a large number of listeners, when only group 1 is activated.)
- **Group 2** Group 2 activated (controlled by PTT2).
(Notice: The total number of simultaneous speakers on the base is reduced by 1 to max. 8 speakers totally, shared in both groups, but with additional listeners in both groups.)
- **Momentary PTT2** Return to the previous group after PTT2 activation.
- **+ Group 1** Direct the speech in Group 2 also to Group 1.
- **Base RA2 PTT** N/A

Continued on next page...

Man Machine Interface (... continued)

The screenshot shows the PELTOR Man Machine Interface software. The 'Routing Settings' tab is active, showing three main sections: General, Portable (Also Base running as Portable), and Base. The General section includes checkboxes for 'LED Indication Enabled', 'Enable Voices', 'Lock Buttons', and 'Auto Talk'. The Portable section includes checkboxes for 'Group 1', 'Group 2', 'Momentary PTT2', '+ Group 1', 'Base RA2 PTT', 'Group 3', 'Momentary PTT3', '+ Group 1', 'Base RA3 PTT', and 'Local RA3 PTT'. The Base section includes checkboxes for 'Group Locked', 'No Sidetone/GM', 'Group 1', 'Group 2', 'Group 3', 'RA2', and 'RA3'. The Timing section has input fields for 'Double Click Delay (ms)' set to 500 and 'Long Key Time (ms)' set to 1500.

Routing settings

Portable (also a Base unit running as Portable)

- **Group 3**

Group 3 activated (controlled by PTT3).
The third group, for either DECT or external equipment.

(Notice: If all the three groups are enabled, the total number of simultaneous speakers is reduced to max. 7 speakers totally shared in all groups, but with possibility for additional listeners in all of them.)

- **Momentary PTT3**

Return to the previous group after PTT3 activation.

- **+ Group 1**

Direct the speech in Group 3 also to Group 1.

- **Base RA3 PTT**

Direct the audio from Group3/PTT3 to the external audio output on an Extension base unit DC2#15. (Common for all users in the DECT conference.)

- **Local RA3 PTT**

Direct the audio from Group 3/PTT3 to the external output 3 to a personal unit on an Extension Base DC2#15, working as Portable.

Continued on next page...

Man Machine Interface (... continued)

The screenshot shows the PELTOR Man Machine Interface software. The 'Routing Settings' tab is active, displaying three main sections: General, Portable (Also Base running as Portable), and Base. The General section includes checkboxes for 'LED Indication Enabled', 'Enable Voices', 'Lock Buttons', and 'Auto Talk', as well as 'Timing' settings for 'Double Click Delay (ms)' (500) and 'Long Key Time (ms)' (1500). The Portable section lists checkboxes for 'Group 1', 'Group 2', 'Momentary PTT2', '+ Group 1', 'Base RA2 PTT', 'Group 3', 'Momentary PTT3', '+ Group 1', 'Base RA3 PTT', and 'Local RA3 PTT'. The Base section includes checkboxes for 'Group Locked', 'No Sidetone/GM', 'Group 1', 'Group 2', 'Group 3', 'RA2', and 'RA3'.

Routing settings

Base unit

- **Group locked**

All groups are separated from each other. Equipment connected to Group 3 on an Extension base unit DC2#15 is available, but calls can only be heard when listening to Group 3.

- **No sidetone/GM**

The side tone, i.e. the speaker's own voice, is muted. (This is mainly for use in the ground mechanic application.)

- **Group 1**

Group 1 activated (controlled by PTT1). The first DECT group (Group 1) is always activated.

- **Group 2**

Group 2 (PTT2) activated.

- **Group 3**

Group 3 (PTT3) activated.

- **RA2**

N/A

- **RA3**

The interface for external audio on Group 3 is activated (on an Extension Base DC2#15 base unit).

10. Microphone



Mic Microphone amplification

Gain

- **Lo Z** Normal level for “low impedance” microphone
- **Dynamic** Normal level for dynamic microphone
- **Electret** Normal level and bias voltage for an electret microphone.
- **Carbon** Normal setting for “carbon microphone”

The three settings; Lo, Dynamic and Electret can be adjusted to be equal, while the setting named “Carbon” is separate.

VOX Voice operated “noise gate”

ON

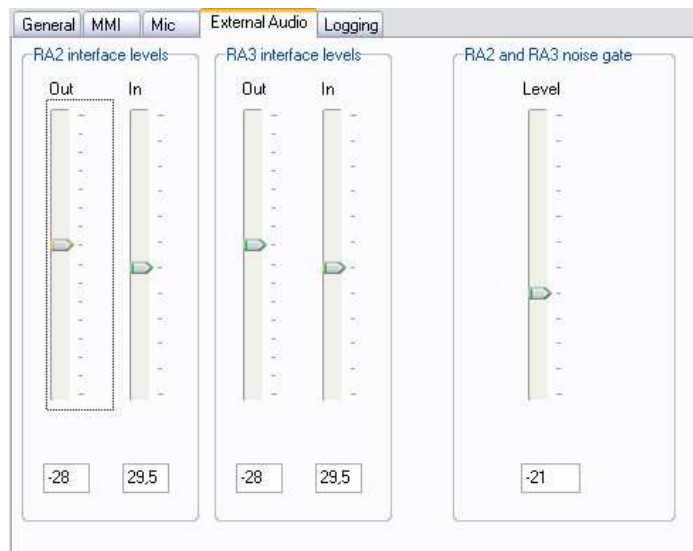
- **Trig delay** Time for the “VOX” noise gate activation.
- **Levels** Levels (sound pressure) for activation of the five “VOX” steps respectively.

OFF

- **Hold time** Time for the release time of the “VOX”.
- **Levels** Levels (sound pressure) for deactivation of the five “VOX” steps respectively.

11. External Audio

This tab is only visible if there is an Extension Base/Portable unit (DC2#15) placed in the programming holder.



RA2 interface levels

Interface parameters for external audio on Group 2. (This connection is not yet implemented.)

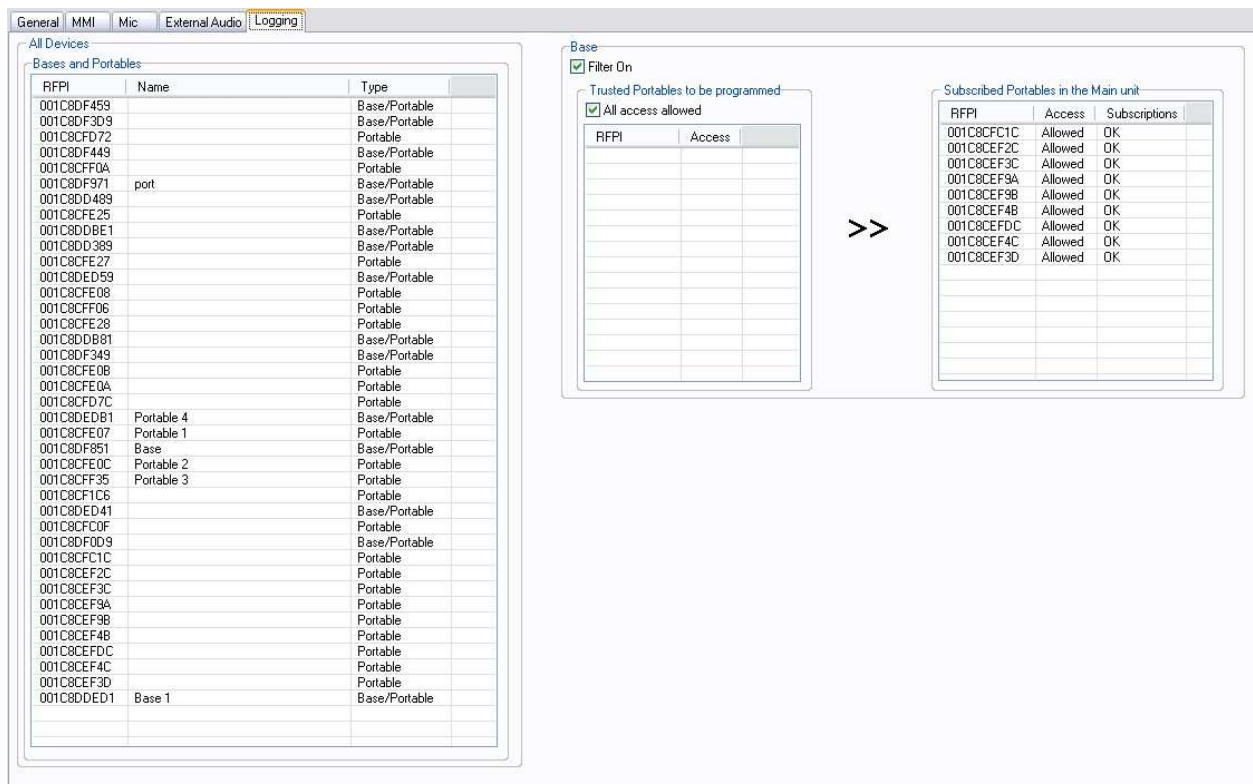
RA3 interface levels

Interface parameters for external audio on Group3.

RA2 and RA3 noise gate

Squelch threshold level for both external audio interfaces. (The RA2 connection is not yet implemented.)

12. Logging



All devices This list shows all the units which have been connected to the actual computer.

Bases and Portables

Base

(This alternative will only be shown if a unit running as **Base** is placed in the programming holder.)

- **Filter ON** Tick this box if the Base unit shall only accept connection with Portable units in the “Subscribed Portables in the main unit” list.
- **Trusted Portables to be programmed**

Click on the wanted Portable unit in the “All devices” list and drag it to the “Trusted Portables to be programmed” list.

(This action can be repeated to log more units.)

If the box “All access allowed” is marked, or if you double click in the “Access” column, the unit(s) will be allowed to connect to the base.

Press "Write All" to move the unit(s) to the "Subscribed Portables in the main unit" list.



Continued on next page...

Logging (... continued)

The screenshot shows the 'Logging' tab in the PELTOR software. On the left, under 'All Devices', there is a table with columns 'RFPI', 'Name', and 'Type'. It lists various units, some of which are categorized as 'port', 'Portable 1', 'Portable 2', 'Portable 3', 'Base 1', and 'Portable 4'. On the right, there is a 'Portable' section with a 'Filter On' checkbox checked. Below it, 'Trusted Bases to be programmed' has a table with 'RFPI' and 'Access' columns. To the right of this is a 'Subscribed Bases in the Main unit' table with columns 'RFPI', 'Access', and 'Subscription'. An arrow points from the 'Trusted Bases' table to the 'Subscribed Bases' table.

All devices This list shows all the units which have been connected to the actual computer.

Bases and Portables

Portable

(This alternative will only be shown if a unit running as **Portable** is placed in the programming holder.)

- Filter ON**

Tick this box if the Portable shall only accept connection with Base units in the “Subscribed Bases...” list.

Trusted Bases to be programmed

Click on a wanted Base unit in the “All devices” list and drag it to the “Trusted Bases...” list.


(This action can be repeated to log more units.)

If the box “All access allowed” is marked, or if you double click in the “Access” column, the unit(s) will be allowed to connect to the Portable.

Press “Write All” to move the unit(s) to the “Subscribed Bases...” list.

The screenshot shows the bottom status bar of the PELTOR software. It includes a 'Now Editing' dropdown set to 'DC2x15 Base/Portable EXT', a 'running as' dropdown set to 'Base', and a 'Name' text box containing 'Base 1'. To the right are four buttons: 'Read All', 'Write All' (which is circled in red), 'Reset All Settings - Keep Subscriptions', and 'Reset All Settings - Remove Subscriptions'. Below the buttons are two checkboxes: 'Force restart after write' and 'Filter ON after reset', both of which are checked.

13. Information bar

The image shows a horizontal information bar with a light beige background. On the left, there is a large white rectangular text area. To the right of this area, the word "Information" is written in a small blue font. Further to the right, there are several input fields: "Default" followed by a small white box, "Min" followed by a small white box, "Unit" followed by a small white box, "Max" followed by a small white box, and "Step" followed by a small white box.

In the bottom part of the screen window there is an **information** bar. It displays special **information**, **default** value, **min** value, **max** value, **unit** and value **step** size.

When the cursor is placed over the settings squares, the default values and other settings information is shown on the bottom of the page.

PELTOR™ DECT-Com II™ Charger / Programming Holder DC2065

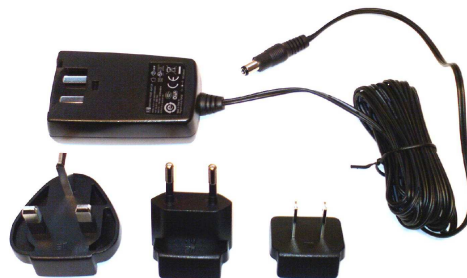
Charger / Programming holder for charging and/or programming the main units DC2811, DC2812, DC 2815, DC2911, DC2912 and DC2915.

Charging a standard battery pack, DC2033, takes approx. 12 hours. Charging is indicated with a red LED, when the LED turns green, charging is finished. A blinking red/green LED indicates that the charger unit is detecting/analysing a newly inserted battery. Note! There is only possible to charge battery pack DC2033 in this charger.



For programming a main unit, connect the programming holder with the included USB cable to the computer. Please follow the instructions in this DECT-Com II programming manual for programming your main units.

Included in the package is also a universal mains adaptor with connectors for EU, UK and US. Choose your appropriate mains connector and mount it on the mains adapter.



TECHNICAL DATA

Mains adapter

Input 100 – 240 V \approx , 50/60 Hz, 400 mA
Output 9.0 V $\overline{\square}$ 1.0 A

Charger / Programming holder

Input 9 – 15 V DC

Charge time of a DC2033
Up to ~12 hours

Charging temperature interval
5°C to 45°C

USB interface
USB 2.0